

MAKE YOUR BATTERIES LIVE FOREVER WITH OUR DISRUPTIVE SEMICONDUCTORS



e-peas
semiconductors

e-peas S.A.
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Software/Firmware R&D Engineer

Do you want to be part of the IoT revolution?

e-peas is a company founded in 2014 on the conviction the trillions of connected IoT nodes to be deployed in the next few years will require disruptive solutions to extend batteries lifetime. At e-peas, we believe new applications will ultimately be made possible by the combination of two approaches:

- Increasing the harvested energy provided to the system; and,
- Increasing the energy-efficiency of Integrated Circuits.

Relying on 10 years of research and its patented disruptive technologies, e-peas offers a portfolio of Integrated Circuits including photovoltaic and thermoelectric harvester interfaces, microcontrollers and sensor solutions.

What will be your job?

To support our Software Development Activities, we are looking for a **Software/Firmware R&D Engineer**. You will join the Software R&D Team and you will work in close relation with the Hardware R&D Team. You will participate in software and specifications design, keeping in mind your main focus is to deliver energy-efficient software in an open-source context. Your field of expertise covers firmware/middleware/software development on both, simulated and on-target, environments. You have affinities with low-level programming and operating system internals.

Committed to deliver quality pieces of software to our customers, you are analytical minded; you are eager to acquire a deep knowledge of MCU architectures, of driver design, and of system programming.

Are you ready for your next challenge?

- You will analyse, write, and review firmware, middleware and software specifications;
- You will develop new software components and/or modify the existing ones (e.g. drivers design, O/S porting, application development);
- You will analyse and work to increase the software related energy-efficiency of e-peas' Integrated Circuits;
- You will participate in code reviews;
- You will create and maintain the technical documentation for both, internal and external, users;
- You will solve software bugs.

Who are you?

- You own a degree in Computer Science and/or Electronics, or related disciplines;
- You have an interest in electronics, in real-time/embedded software, and in operating system internals
- You have a valuable knowledge of the ARM architectures and the CMSIS API;
- You are fluent in C/C++, familiar with scripting languages (eg. Python, Bash, Shell), and not afraid of assembly language;
- You are willing to work with the design-by-contract paradigm and you feel comfortable with the OO paradigm;
- You are end-user oriented, quality minded, eager to learn, curious and passionate; You have a can-do mentality;
- You are fluent in English (a working knowledge of French is a plus);
- You have strong written and oral communication skills.

What can we offer to you?

Beyond an attractive package and benefits, you will work at the cutting-edge of technology within a company with a young and motivating team spirit. In addition, you will have the opportunity to develop your career and experience as e-peas grows.

Up to the challenge?

Please send your CV and your cover letter at: careers@e-peas.com